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FIGURE 1 (PRIOR ART)

TERANETICS, ATTORNEY DOCKET NUMBER Tera-0003, INVENTOR: Tellado et al.
TITLE: SUB-BLOCK DOMAIN TRANSFORMATION MULTIPLE SIGNAL PROCESSING;
Contact: Brian Short-408-888-9830, 9 Figures

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FIGURE 2 (PRIOR ART)

TERANETICS, ATTORNEY DOCKET NUMBER Tera-0003, INVENTOR: Tellado et al.
TITLE: SUB-BLOCK DOMAIN TRANSFORMATION MULTIPLE SIGNAL PROCESSING;
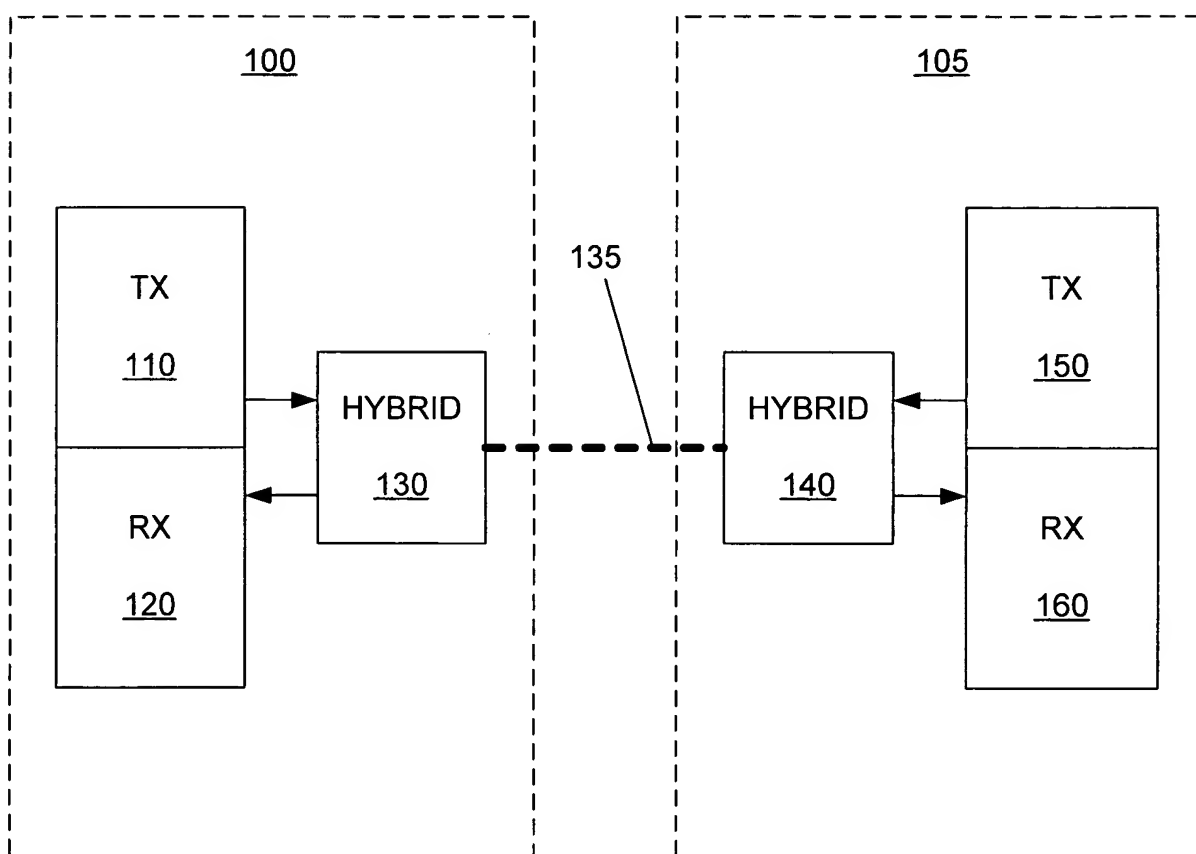Contact: Brian Short-408-888-9830, 9 Figures

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FIGURE 3

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R1

R2

R3

R4

TRANSCEIVER
FRONT END

410

SUB-BLOCK
TRANSFORM

420

REVERSE
TRANS

440

PROC.

450

ETHERNET
SUB-BLOCK
JOINT
SIGNAL
PROCESSING

430

FIGURE 4

TERANETICS, ATTORNEY DOCKET NUMBER Tera-0003, INVENTOR: Tellado et al.
TITLE: SUB-BLOCK DOMAIN TRANSFORMATION MULTIPLE SIGNAL PROCESSING;
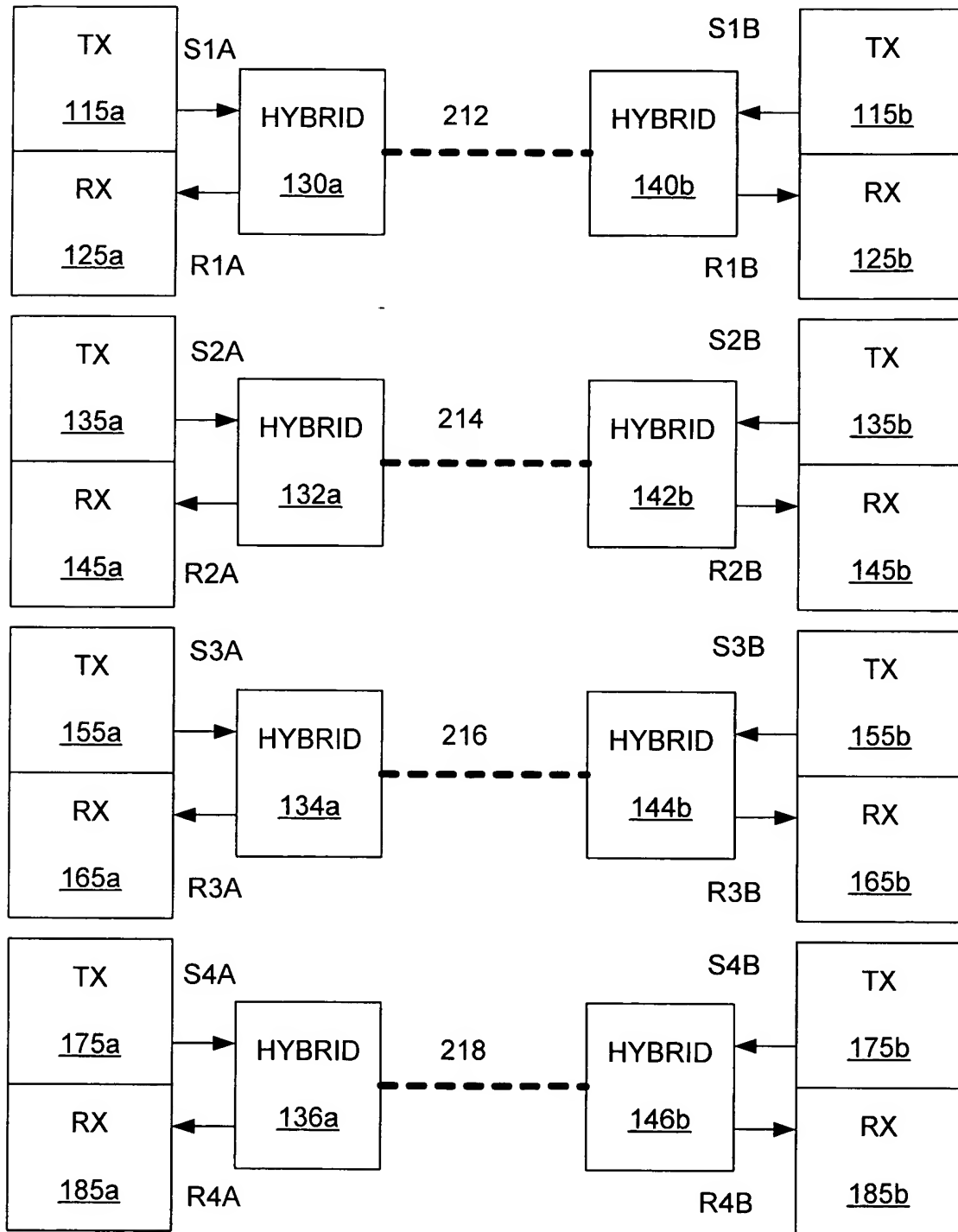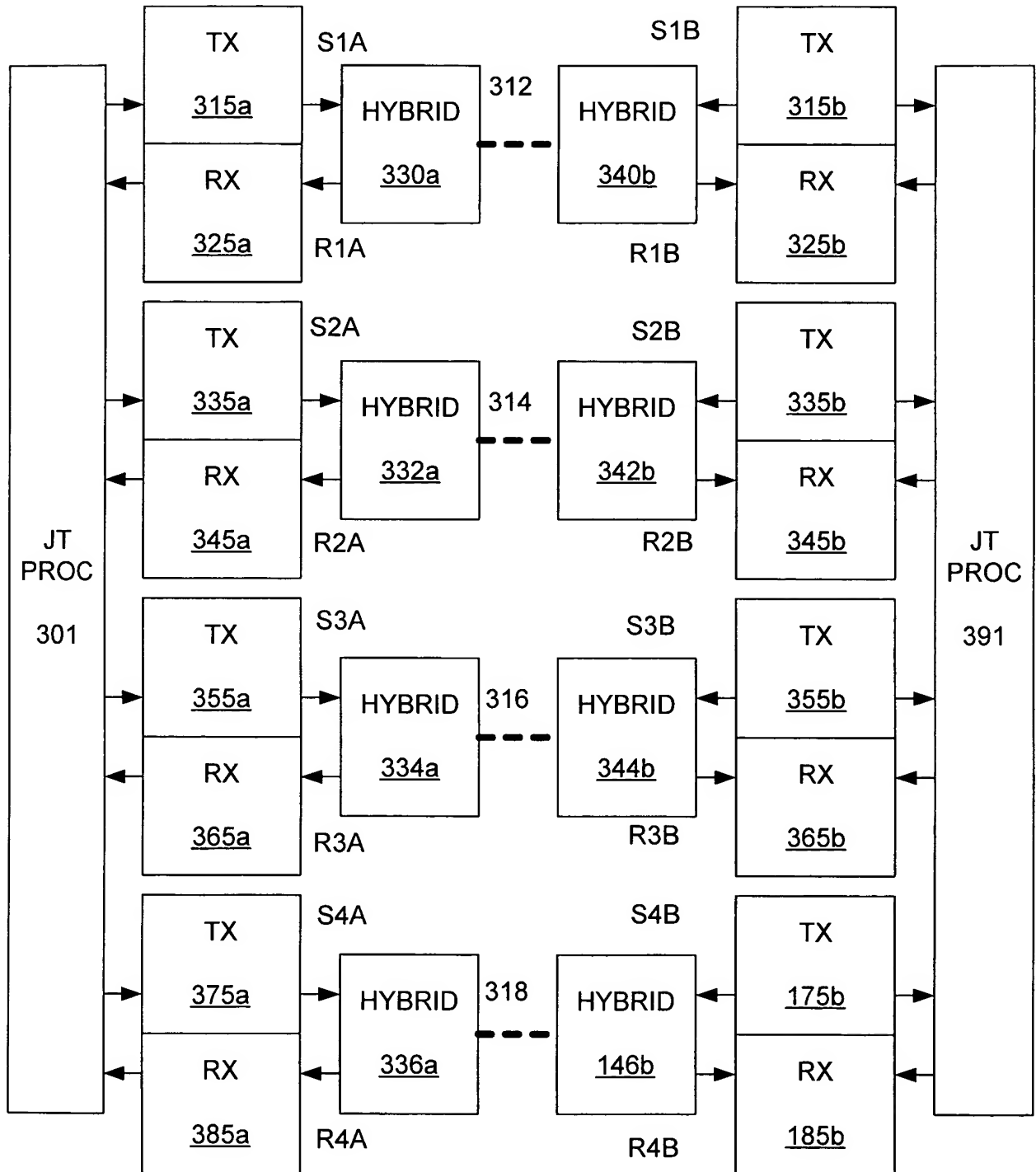Contact: Brian Short-408-888-9830, 9 Figures

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FIGURE 5

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S1'
S2'   TRANSFORM
S3'
S4'   620

REVERSE
TRANS

640

TRANSCEIVER
FRONT END

610

S1
S2
S3
S4

/ 4

/ 4

ETHERNET
SUB-BLOCK
JOINT
SIGNAL
PROCESSING
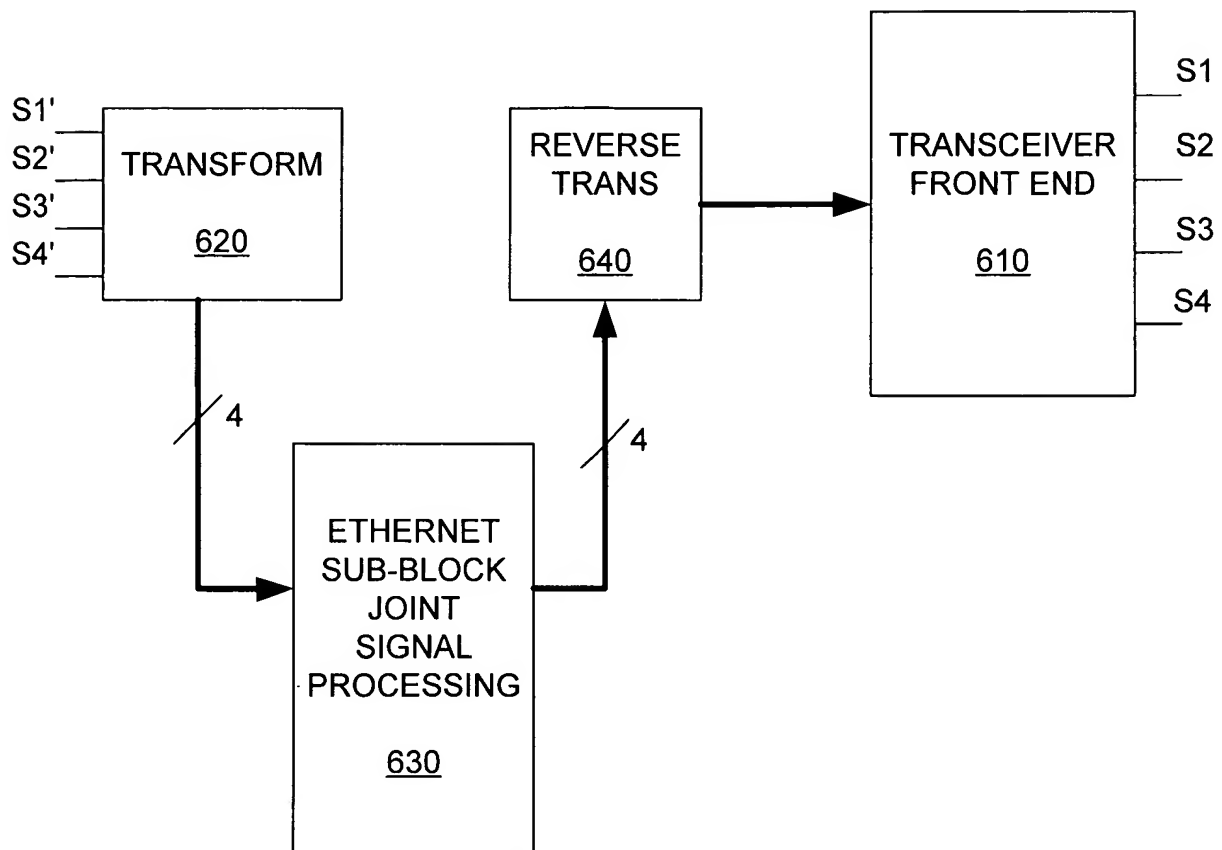
630

FIGURE 6

TERANETICS, ATTORNEY DOCKET NUMBER Tera-0003, INVENTOR: Tellado et al.
TITLE: SUB-BLOCK DOMAIN TRANSFORMATION MULTIPLE SIGNAL PROCESSING;
Contact: Brian Short-408-888-9830, 9 Figures

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FIGURE 7

S1A'

S2A'

S3A'

S4A'

FEC

710

DFT

720

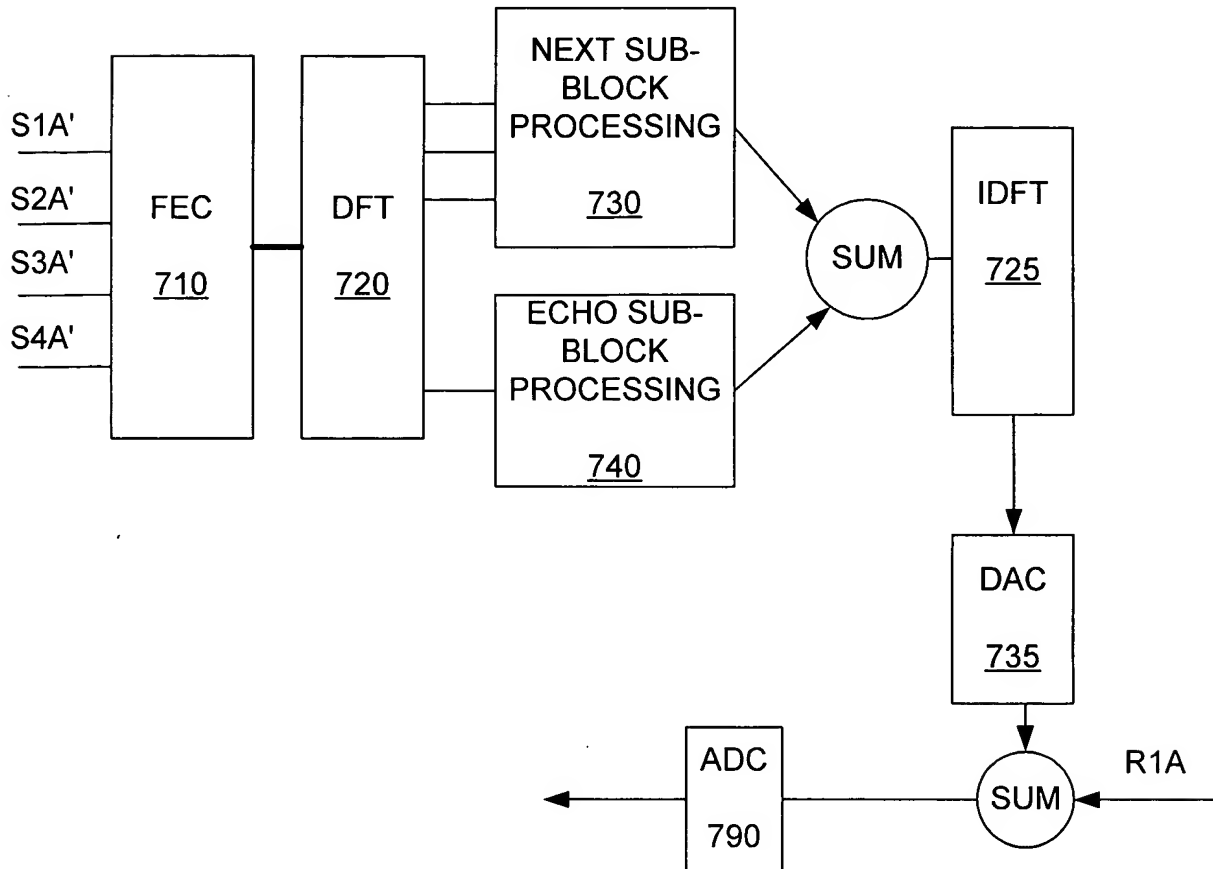FEXT SUB-BLOCK PROCESSING

830

FIFO

850

FILTER

860

IDFT

770

+

DAC

715

S1A

FIGURE 8

TERANETICS, ATTORNEY DOCKET NUMBER Tera-0003, INVENTOR: Tellado et al.
TITLE: SUB-BLOCK DOMAIN TRANSFORMATION MULTIPLE SIGNAL PROCESSING;
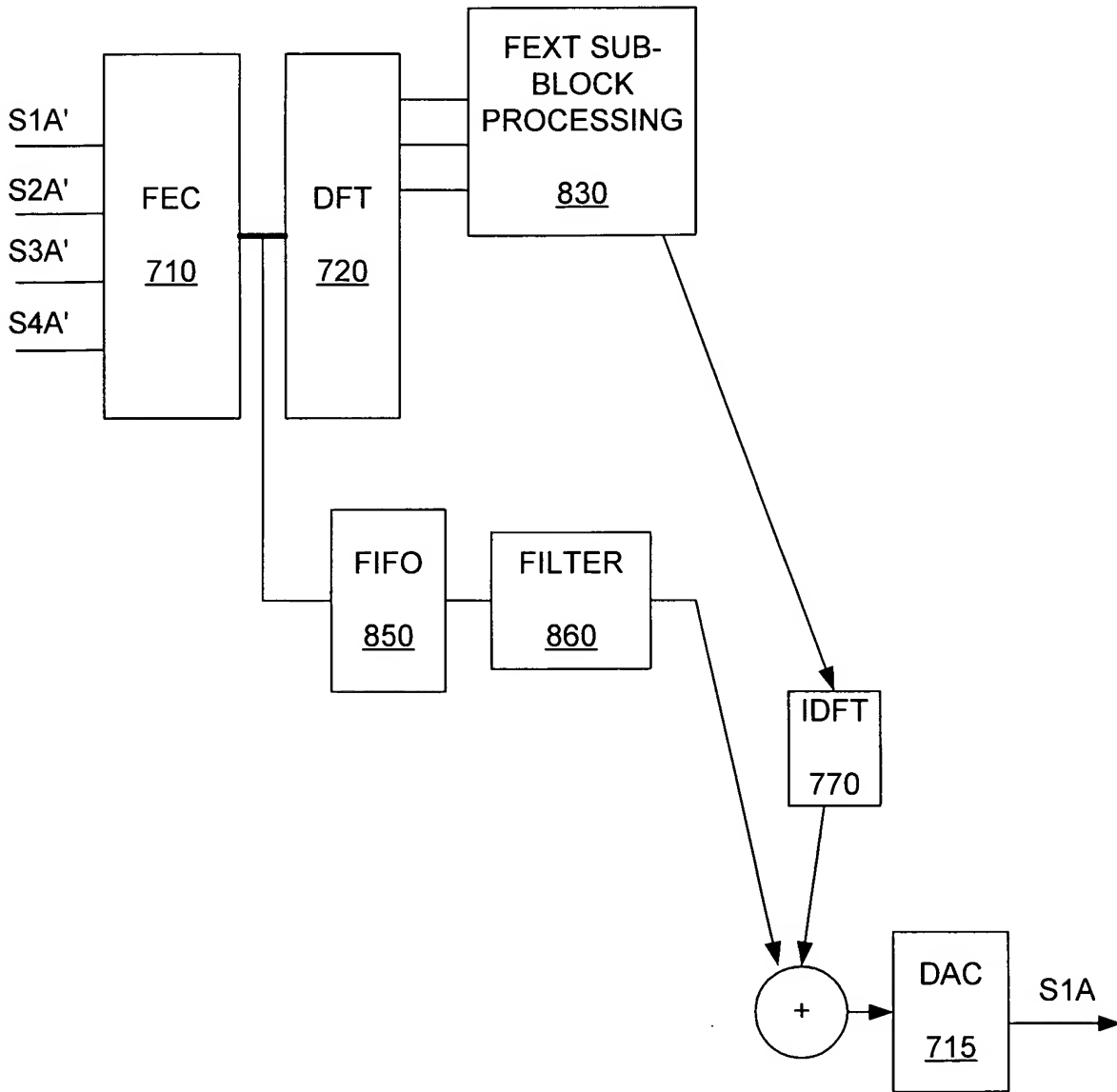Contact: Brian Short-408-888-9830, 9 Figures

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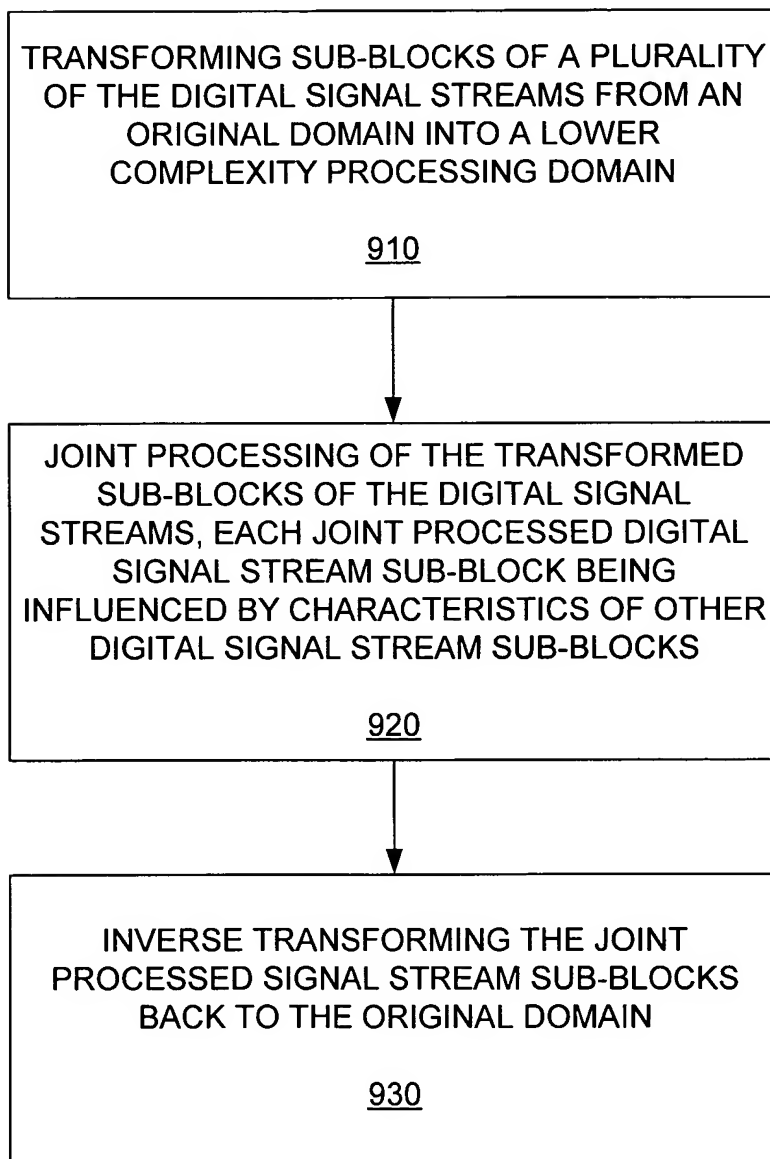TRANSFORMING SUB-BLOCKS OF A PLURALITY
OF THE DIGITAL SIGNAL STREAMS FROM AN
ORIGINAL DOMAIN INTO A LOWER
COMPLEXITY PROCESSING DOMAIN

910

JOINT PROCESSING OF THE TRANSFORMED
SUB-BLOCKS OF THE DIGITAL SIGNAL
STREAMS, EACH JOINT PROCESSED DIGITAL
SIGNAL STREAM SUB-BLOCK BEING
INFLUENCED BY CHARACTERISTICS OF OTHER
DIGITAL SIGNAL STREAM SUB-BLOCKS

920

INVERSE TRANSFORMING THE JOINT
PROCESSED SIGNAL STREAM SUB-BLOCKS
BACK TO THE ORIGINAL DOMAIN

930

FIGURE 9